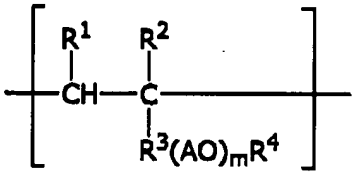
What is claimed is:

1. A phospholipid derivative, which is a phospholipid and is a copolymer containing, as essential component units,

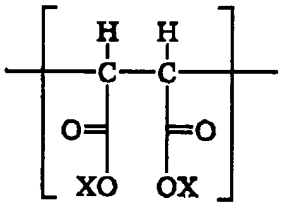
(A) a component unit A represented by the following formula (1),

(B) a component unit B represented by the following formula (2A) and/or the following formula (2B), and

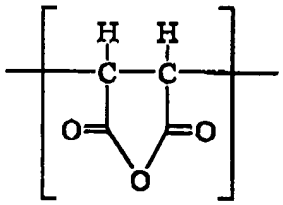
(C) a component unit C represented by the following formula (3):



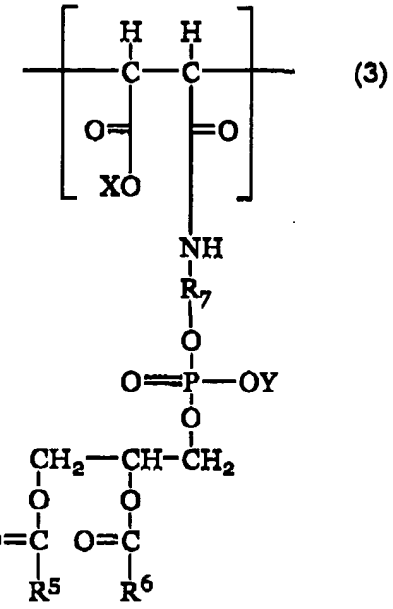
(1)



(2A)



(2B)



(3)

wherein, in the formula (1), R^1 and R^2 independently represent hydrogen atom or methyl group, provided that R^1 and R^2 do not simultaneously represent methyl group; R^3 represents a divalent hydrocarbon group having 1 to 3 carbon atoms; AO independently represents an oxyalkylene group having 2 to 4 carbon atoms; m represents an average molar number of the added oxyalkylene groups and is a number in the range represented as $4 \leqq m \leqq 100$; and R^4 represents hydrogen atom, a hydrocarbon group having 1 to 20 carbon atoms or an acyl group having 1 to 20 carbon atoms; in the formula (2A), X independently represents hydrogen atom, an alkali metal

atom, ammonium or an organic ammonium; and in the formula (3), R^5CO and R^6CO independently represent an acyl group having 8 to 24 carbon atoms; R^7 represents a divalent hydrocarbon group having 2 to 4 carbon atoms; X represents hydrogen atom, an alkali metal atom, ammonium or an organic ammonium; and Y represents hydrogen atom, an alkali metal atom, ammonium or an organic ammonium, wherein a molar ratio of the component unit A relative to a total of the component unit B and the component unit C is from 7/3 to 3/7, and the component unit C is contained at a ratio of from 1 to 5 moles per 1 mole of the copolymer.

2. The phospholipid derivative according to claim 1, wherein the total number of the component unit(s) A, the component unit(s) B, and the component unit(s) C contained in the copolymer is 3 or more and 150 or less.

3. The phospholipid derivative according to claim 1, wherein the total number of the component unit(s) A, the component unit(s) B, and the component unit(s) C contained in the copolymer is 5 or more and 50 or less.

4. The phospholipid derivative according to any one of claims 1 to 3, wherein R^1 is hydrogen atom, R^2 is hydrogen atom or methyl group, and R^3 is methylene group.

5. The phospholipid derivative according to any one of claims 1 to 4, wherein R^7 is ethylene group.

6. A surfactant comprising the phospholipid derivative according to any one of claims 1 to 5.

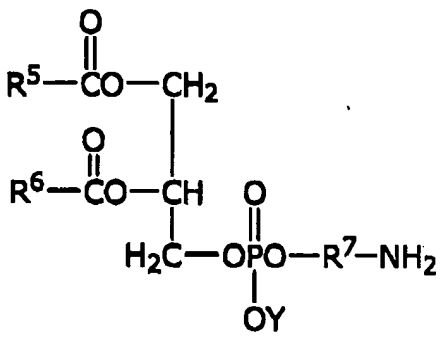
7. A lipid membrane structure comprising the phospholipid derivative according to any one of claims 1 to 5.

8. The lipid membrane structure according to claim 7, which is a liposome.

9. A pharmaceutical composition containing the lipid membrane structure according to claim 7 or 8 retaining a medicament.

10. The pharmaceutical composition according to claim 9, wherein the medicament is an antitumor agent.

11. A method for producing the phospholipid derivative according to any one of claims 1 to 5, which comprises the step of reacting a copolymer containing the component unit A and the component unit B at a molar ratio of from 7/3 to 3/7 with a compound represented by the following formula (4):



(4)

wherein R^5CO, R^6CO, R^7, and Y have the same meanings as defined above.